

Casp8 monoclonal antibody, clone 1G12

Catalog # MAB3429

Size 100 ug

Specification

Product Description	Rat monoclonal antibody raised against recombinant Casp8.
Immunogen	Recombinant protein corresponding to p18 subunit of mouse Casp8.
Host	Rat
Reactivity	Mouse
Specificity	Recognizes the p18 subunit of mouse caspase-8. Detects bands of ~55 KDa (full length caspase-8) and ~18 KDa (apoptosis-induced cleavage fragment) by Western blot. Does not cross-react with human caspase-8.
Form	Liquid
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunocytochemistry
- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Gene Info — Casp8

Entrez GeneID	12370
Gene Name	Casp8
Gene Alias	Caspase-8, FLICE, MACH, Mch5
Gene Description	caspase 8
Gene Ontology	Hyperlink
Other Designations	Fas-linked ICE-like protease

Publication Reference

- [IKK \$\beta\$ Alleviates Neuron Injury in Alzheimer's Disease via Regulating Autophagy and RIPK1-Mediated Necroptosis.](#)

Wei Wang, Xunhu Gu, Zhijuan Cheng, Xiaoqing Lu, Shuhua Xie, Xu Liu.

Molecular Neurobiology 2022 Apr; 59(4):2407.

Application: WB, Human, SH-SY5Y

- [Microbes exploit death-induced nutrient release by gut epithelial cells.](#)

Christopher J Anderson, Christopher B Medina, Brady J Barron, Laura Karvelyte, Tania Løve Aaes, Irina Lambertz, Justin S A Perry, Parul Mehrotra, Amanda Gonçalves, Kelly Lemeire, Gillian Blancke, Vanessa Andries, Farzaneh Ghazavi, Arne Martens, Geert van Loo, Lars Vereecke, Peter Vandenabeele, Kodi S Ravichandran.

Nature 2021 Aug; 596(7871):262.

Application: WB-Ce, WB-Tr, Mouse, CT26 cells

- [Antioxidant and food additive BHA prevents TNF cytotoxicity by acting as a direct RIPK1 inhibitor.](#)

Tom Delanghe, Jon Huyghe, Seungheon Lee, Dario Priem, Samya Van Coillie, Barbara Gilbert, Sze Men Choi, Peter Vandenabeele, Alexei Degterev, Gregory D Cuny, Yves Dondelinger, Mathieu J M Bertrand.

Cell Death & Disease 2021 Jul; 12(7):699.

Application: IP, WB, Mouse, MEF cell

- [Ionizing radiation results in a mixture of cellular outcomes including mitotic catastrophe, senescence, methuosis, and iron-dependent cell death.](#)

Sandy Adjemian, Teodora Oltean, Sofie Martens, Bartosz Wiernicki, Vera Goossens, Tom Vanden Berghe, Benjamin Cappe, Maria Ladik, Franck B Riquet, Liesbeth Heyndrickx, Jolien Bridelance, Marnik Vuylsteke, Katrien Vandecasteele, Peter Vandenabeele.

Cell Death & Disease 2020 Nov; 11(11):1003.

Application: WB-Ce, WB-Tr, Mouse , 71-7, CT26, L929, MCA205, MEFs, MUCC cells

- [OTULIN Prevents Liver Inflammation and Hepatocellular Carcinoma by Inhibiting FADD- and RIPK1 Kinase-Mediated Hepatocyte Apoptosis.](#)

Verboom L, Martens A, Priem D, Hoste E, Sze M, Vikkula H, Van Hove L, Voet S, Roels J, Maelfait J, Bongiovanni L, de Bruin A, Scott CL, Saeys Y, Pasparakis M, Bertrand MJM, van Loo G.

Cell Reports 2020 Feb; 30(7):2237.

Application: WB-Ti, Mouse, Mouse liver

- [Immunodominant AH1 Antigen-Deficient Necroptotic, but Not Apoptotic, Murine Cancer Cells Induce Antitumor Protection.](#)

Aaes TL, Verschuere H, Kaczmarek A, Heyndrickx L, Wiernicki B, Delrue I, De Craene B, Taminiau J, Delvaeye T, Bertrand MJM, Declercq W, Bex G, Krysko DV, Adjemian S, Vandenabeele P.

Journal of immunology 2020 Feb; 204(4):775.

Application: IP, WB-Ce, Mouse, CT26 cells

- [A20 protects cells from TNF-induced apoptosis through linear ubiquitin-dependent and -independent mechanisms.](#)

Priem D, Devos M, Druwé S, Martens A, Slowicka K, Ting AT, Pasparakis M, Declercq W, Vandenabeele P, van Loo G, Bertrand MJM.

Cell Death & Disease 2019 Sep; 10(10):692.

Application: WB-Ce, Mouse, MEFs

- [Serine 25 phosphorylation inhibits RIPK1 kinase-dependent cell death in models of infection and inflammation.](#)

Dondelinger Y, Delanghe T, Priem D, Wynosky-Dolfi MA, Sorobetea D, Rojas-Rivera D, Giansanti P, Roelandt R, Gropengiesser J, Ruckdeschel K, Sawides SN, Heck AJR, Vandenabeele P, Brodsky IE, Bertrand MJM.

Nature Communications 2019 Apr; 10(1):1729.

Application: WB, Mouse, MEFs

- [N-glycosylation of mouse TRAIL-R restrains TRAIL-induced apoptosis.](#)

Estomes Y, Dondelinger Y, Weber K, Bruggeman I, Peall A, MacFarlane M, Lebecque S, Vandenabeele P, Bertrand MJM.

Cell Death & Disease 2018 May; 9(5):494.

Application: WB-Ce, Mouse, MEFs

- [Vaccination with Necroptotic Cancer Cells Induces Efficient Anti-tumor Immunity.](#)

Aaes TL, Kaczmarek A, Delvaeye T, De Craene B, De Koker S, Heyndrickx L, Delrue I, Taminau J, Wiernicki B, De Groote P, Garg AD, Leybaert L, Grooten J, Bertrand MJ, Agostinis P, Berx G, Declercq W, Vandenabeele P, Krysko DV.

Cell Reports 2016 Apr; 15(2):274.

Application: WB-Tr, Mouse, DD_RIPK3, CT26 cells

- [Glutathione peroxidase 4 prevents necroptosis in mouse erythroid precursors.](#)

Canli O, Alankus YB, Grootjans S, Vegi N, Hultner L, Hoppe PS, Schroeder T, Vandenabeele P, Bornkamm GW, Greten FR.

Blood 2016 Jan; 127(1):139.

Application: WB, Mouse, Erythroid cells

- [RIPK1 promotes death receptor-independent caspase-8-mediated apoptosis under unresolved ER stress conditions.](#)

Estomes Y, Aguilera MA, Dubuisson C, De Keyser J, Goossens V, Kersse K, Samali A, Vandenabeele P, Bertrand MJ.

Cell Death & Disease 2014 Dec; 5:e1555.

Application: IP-WB, WB-Tr, Mouse, Ripk1+/+ MEF, Ripk1-/- MEF, MEF cells